
CURRICULUM VITAE

Name

Ali, Ghazanfar

Current Position

Assistant Professor (TTS)

Date of Birth

18 March, 1977

Head of Biotechnology Department,

Head of Molecular Genetics Research Laboratory

Work Address

Department of Biotechnology,

University of Azad Jammu and Kashmir,

Chellah Campus, Muzaffarabad, Pakistan

Telephone: (92) 5822-960500

Mobile: (92) 333-5217669

E-mail: ali.phd.qau@gmail.com

EDUCATION/ TRAINING

INSTITUTION AND LOCATION	DEGREE	YEAR(S)	FIELD OF STUDY
Quaid-i-Azam University, Islamabad, Pakistan	Ph.D.	2009	Biology (Human Molecular Genetics)
Quaid-i-Azam University, Islamabad, Pakistan	M.Phil.	2004	Biochemistry/ Molecular Biology
Quaid-i-Azam University, Islamabad, Pakistan	M.Sc.	2002	Biochemistry/ Molecular Biology
The University of Punjab, Lahore, Pakistan	B.Sc.	1999	Botany, Zoology, Chemistry

ACADEMIC EMPLOYMENT

2013-Present	Assistant Professor (TTS), Department of Biotechnology, University of Azad Jammu and Kashmir, Muzaffarabad, Pakistan.
2010-2013	Assistant Professor, Centre of Excellence in Biotechnology Research, College of Science, King Saud University, Riyadh, Saudi Arabia.
2004-2010	Research Officer (BPS-17), Pakistan Medical Research Council, Central Research Centre, National Institute of Health (NIH), Ministry of Health, Islamabad, Pakistan.

RESEARCH AWARDS/ APPRECIATION CERTIFICATES

2018-2019	University Best Teacher Award Recieved from University of Azad Jammu & Kashmir, Pakistan
2016-2017	Certificate in Recognition of Invaluable Research Contributions for the year 2016-17 awarded by ORIC, University of Azad Jammu & Kashmir, Muzaffarabad, Pakistan.
2015	Felicitatation Letter, 2015 by the Vice Chancellor on academic excellence achieved by the University of Azad Jammu and Kashmir, Muzaffarabad, Pakistan.
2014	Certificate in Recognition as Research Productive Scientist of Pakistan for the year 2014 awarded by ORIC, University of Azad Jammu & Kashmir, Muzaffarabad, Pakistan.
2014	Certificate in Recognition of Invaluable Research Contributions for the year 2014 awarded by ORIC, University of Azad Jammu & Kashmir, Muzaffarabad, Pakistan.
2013-2014	Research Productivity Award Received from Pakistan Council for Science & Technology, Pakistan
2013	Commendation Certificate for valuable research contribution in the field of Human Molecular Genetics during 2013 by ORIC, University of Azad Jammu & Kashmir, Muzaffarabad, Pakistan.
2009	PAS Gold Medal Awarded by Pakistan Academy of Sciences, Islamabad, Pakistan
2007-2008	Research Productivity Award Received from Pakistan Council for Science & Technology, Pakistan
2006-2007	Research Productivity Award Received from Pakistan Council for Science & Technology, Pakistan

RESEARCH ACTIVITIES

Past

My training as a biologist started in 2003 in the laboratory of Dr. Wasim Ahmad at the Quaid-i-Azam University, Islamabad, Pakistan, where I completed my M.Phil and Ph.D thesis research on the identification of genes involved in congenital alopecia, hearing impairment, primary microcephaly and duchenne muscular dystrophy in Pakistani families.

In 2004, I joined the Pakistan Medical Research Council, Central Research Centre at National Institute of Health, Ministry of Health, Islamabad Pakistan as a Research Officer, where I conducted research on the various health issues and human genetic diseases prevalent in Pakistani population.

In 2010, I joined as an Assistant Professor in Centre of Excellence in Biotechnology Research, King Saud University, Riyadh, Saudi Arabia, where I conducted research on the human respiratory viruses circulating in Saudi population. In the history of Saudi Arabia, I have published data about novel influenza viruses in Saudi patients.

Current

In 2013, I joined Biotechnology Department as an Assistant Professor in University of Azad Jammu & Kashmir, I have established research laboratory to pursue my research in the field of human genetics e.g. skeletal anomalies (such as polydactyly, syndactyly, osteogenesis imperfecta, dwarfism etc), intellectual disability, primary microcephaly, alopecia, ectodermal dysplasias and eye disorders. At the same time, I took initiatives to expand my research expertise into other areas of life sciences, such as molecular virology, medicinal plants and nano-biotechnology. I have published several research articles in ISI impact factor journals during last 15 years of my services in various research organizations.

COMPLETED RESEARCH GRANTS

Higher Education Commission, Islamabad, Pakistan

Co-Principal Investigator

Genetic characterization of different apple varieties of Azad Jammu and Kashmir, Pakistan.

Directorate of Advanced Studies and Research, University of Azad Jammu & Kashmir, Pakistan

Principal Investigator

Identification of genes involved in ectodermal dysplasias and alopecias in Kashmiri families.

Centre of Excellence in Biotechnology Research, College of Science, King Saud University, Riyadh, Saudi Arabia

Co-Principal Investigator

Development of Respiratory Viral Particulate Subunit Vaccine.

Centre of Excellence in Biotechnology Research, College of Science, King Saud University, Riyadh, Saudi Arabia

Co-Principal Investigator

Isolation and Identification of Respiratory Viruses Circulating in Saudi Population.

Pakistan Medical Research Council, Central Research Centre, NIH, Ministry of Health, Islamabad Pakistan

Co-Principal Investigator

Knowledge, attitude and practice pattern of hand washing in some major public hospitals of Pakistan.

ONGOING RESEARCH GRANTS

Directorate of Advanced Studies and Research, University of Azad Jammu & Kashmir, Pakistan

Principal Investigator

Genetic Mapping of Autosomal Recessive Genes Involved in Neurological Disorders in Families from Azad Jammu and Kashmir.

Higher Education Commission, Islamabad, Pakistan

Co-Principal Investigator

Status, Economic potential and Molecular characterization of Cat fish species at Mangla Reservoir.

PEER REVIEWED PUBLICATIONS [Total Citations: 1473; H-Index: 23]

1. **Ghazanfar Ali***, Sardar Riaz-UI-Hassan, Sadia, Muhammad Ali Shah, Muhammad Qudir Javid, Abdul Rehman Khan, Lubna Shakir. Antibiotic susceptibility and drug prescription pattern in uropathogenic *Escherichia coli* in district Muzaffarabad, Azad Jammu and Kashmir, Pakistan. **Journal of the Pakistan Medical Association**. 2020 Feb 10. (Accepted) IF:0.642
2. Tasleem Akhtar, **Ghazanfar Ali***, Nuzhat Shafi. Length-Weight Relationships, Condition Factor and Morphometric Characteristics of Schizothoracinae from Neelum and Jhelum Rivers of Azad Jammu and Kashmir, Pakistan. **Pakistan Journal of Zoology**, 2020. IF:0.790
3. Tasleem Akhtar, **Ghazanfar Ali***, Nuzhat Shafi, Abdul Rauf. Molecular Characterization of subfamily Schizothoracinae (Teleostei: Cyprinidae) using Complete Sequence of Mitochondrial 16S rRNA Marker. **Pakistan Journal of Zoology**, 2020; 52(1), 273-282. IF:0.790

4. **Ali G***, Awan NB, Sadia, Khawaja AW, Foo JN2, Khor CC, Chang CH, Chew EG, Kiani FR, Jelani M. Identification of a recurrent nonsense mutation in HR gene responsible for atrichia with papular lesions in two Kashmiri families. **J Gene Med**. 2020 Feb 5:e3167. doi: 10.1002/jgm.3167.
5. Siraj ul Haq, Wajid Rehman, Muhammad Waseem, Amreen Shah, Abdul Rehman Khan, Mahfooz Ur Rehman, Pervaiz Ahmad, Basharat Khan and **Ghazanfar Ali**. Green synthesis and characterization of tin dioxide nanoparticles for photocatalytic and antimicrobial studies. **Mater Res Express**. 2020 Feb 4; 7(4): 025012. doi.org/10.1088/2053-1591/ab6fa1.
6. Sadia, Jia Nee Foo, Chiea Chuen Khor, Musharraf Jelani, **Ghazanfar Ali***. A recurrent missense mutation in the EDAR gene causes severe autosomal recessive hypohidrotic ectodermal dysplasia in two consanguineous Kashmiri families. **Journal of Gene Medicine**. 2019 Sep; 21(9):e3113. doi: 10.1002/jgm.3113. **IF:1.561**
7. Syeda Ain-ul Batool, sadia Idrees, Angela kaindl, kathrin Blaesius, **Ghazanfar Ali***. Molecular genetic analysis of Bardet-Biedl syndrome in Kashmiri family: report of missense mutation in BBS9 gene. **Pakistan Journal of Zoology**. 2019 July 16; 51(4):1575-1578. **IF:0.790**
8. Schrauwen I, Giese AP, Aziz A, Lafont DT, Chakchouk I, Santos-Cortez RLP, Lee K, Acharya A, Khan FS; University of Washington Center for Mendelian Genomics, Ullah A, Nickerson DA, Bamshad MJ, **Ali G**, Riazuddin S, Ansar M, Ahmad W, Ahmed ZM, Leal SM. FAM92A Underlies Nonsyndromic Postaxial Polydactyly in Humans and an Abnormal Limb and Digit Skeletal Phenotype in Mice. **Journal of Bone and Mineral Research**. 2019 Feb; 34(2):375-386. **IF:5.711**
9. Kathrin Blaesius, Ansar A. Abbasi, Tufail Hussain Tahir, Anna Tietze, Sylvie Picker-Minh, **Ghazanfar Ali**, Sundas Farooq, Hao Hu, Zahid Latif, Muhammad N. Khan, Angela Kaindl. Mutations in the tRNA methyltransferase 1 gene TRMT1 cause congenital microcephaly, isolated inferior vermian hypoplasia and cystic leukomalacia in addition to intellectual disability. **American Journal of Medical Genetics: Part A**, 2018 Nov;176(11):2517-2521. **IF:2.197**
10. Zahid Latif, Imen Chakchouk, Isabelle Schrauwen, Kwanghyuk Lee, Regie Lyn P. Santos-Cortez, Izoduwa Abbe, Anushree Acharya, Afeefa Jarral, Imran Ali, Ehsan Ullah, Muhammad Nasim Khan1, **Ghazanfar Ali**, Tufail Hussain Tahir, Michael J. Bamshad, Deborah A. Nickerson, University of Washington Center for Mendelian Genomics, Wasim Ahmad, Muhammad Ansar, Suzanne M. Leal. Confirmation of the role of DHX38 in the etiology of early-onset retinitis pigmentosa. **Investigative Ophthalmology & Visual Science**. 2018 Sep 4;59(11):4552-4557. **IF:3.812**
11. Santos-Cortez RLP, Khan V, Khan FS, Mughal ZU, Chakchouk I, Lee K, Rasheed M, Hamza R, Acharya A, Ullah E, Saqib MAN, Abbe I, **Ali G**, Hassan MJ, Khan S, Azeem Z, Ullah I, Bamshad MJ, Nickerson DA, Schrauwen I, Ahmad W, Ansar M, Leal SM. Novel candidate genes and variants underlying autosomal recessive neurodevelopmental disorders with intellectual disability. **Human Genetics**. 2018 Sep;137(9):735-752. **IF:5.207**
12. Abdul Rehman Khan, Warda Ali , Humer a Fiaz , Khawaja Ansar Yasin, Sadiq ur Rehman , Raja Amjad Waheed Khan , Zia Ul Islam and **Ghazanfar Ali**. The Effect of Honey-Antioxidants on Blood Glycaemia in Normal Healthy Human Subjects. **Pakistan Journal of Life and Social Sciences**. (2018), 16(1): 42-47. **IF:0.00**
13. Zaman R, **Ali G**, Anjum Z, Sajid M, Khan MM, Ahmad A, Abbas SR, Rehman W. Discovery of a Tin-Piperonal-Entecavir Schiff Base Compound That Overcomes Multidrug Resistance by Inhibiting P-Glycoprotein. **Assay and Drug Development Technologies**, 2018 May/Jun;16(4):205-211. **IF:1.420**
14. Saiba Ferdoos, Shakir Khan, Zahid Azeem, Abdul Khaliq Naveed, **Ghazanfar Ali***, Nazia Malik, Syed Sohail Zahoor Zaidi. Seroprevalence of measles IgG antibodies in children of school going age. **Pakistan Journal of Physiology**, 2018 Mar 31; 14(1):13-15. **IF:0.00**

15. Asmat Ullah, Muhammad Umair, Maryam Yousaf, Sher Alam Khan, Nizamud Din, Khadim Shah, Farooq Ahmad, Zahid Azeem, **Ghazanfar Ali**, Bader Alhaddad, Afzal Rafique, Abid Jan, Tobias B. Haack, Tim M. Strom, Thomas Meitinger and Wasim Ahmad. Sequence Variants in four Genes Underlying Bardet-Biedl Syndrome (BBS) in Consanguineous Families. **Molecular Vision**, 2017; 23:482-494. IF:2.174
16. Zahid Latif, Kathrin Blasius, Tufail Hussain Tahir, Muhammad Nasim Khan, **Ghazanfar Ali**, Ansar Ahmed Abbasi, Abdul Rauf, Hao Hu and Angela Kaindl. A homozygous c.2536G>A mutation in CRB1 gene manifesting autosomal recessive Retinitis Pigmentosa in a large consanguineous Kashmiri family. **Pakistan Journal of Zoology**, 2017; 49(6):2313-2317. IF:0.790
17. Tasleem Akhtar, Nuzhat Shafi and **Ghazanfar Ali***. DNA bar-coding of snow trout (*Schizothorax plagiostomus*) from Neelum and Jhelum Rivers of Azad Jammu and Kashmir, Pakistan. **International Journal of Biosciences**, 2017; 10(1), 302-310. IF:0.00
18. Sardar Riaz-ul-hassan, Zeeshan Anjum, Nazia Malik, Lubna Shakir and **Ghazanfar Ali***. Evaluation of direct in-vitro effect of vaccinium macrocarpon against *E. coli* in urinary tract infection patients. **International Journal of Biosciences**, 2016. 9(6), 440-445. IF:0.00
19. Zaheer Awan, Zeeshan Anjum, Samina Sarwar, Abdul Rehman Khan, Nazia Malik and **Ghazanfar Ali***. Molecular genetics of primary microcephaly in Kashmiri families from Pakistan: an overview. **SM Journal of Neurological Disorders and Stroke**, 2016; 2(2): 1010. IF:0.00
20. Zaheer Awan, Syeda Ain-ul-batool, Fauzia Saeed, Nazia Malik and **Ghazanfar Ali***. Molecular genetics of intellectual disability in Kashmiri families from Pakistan: an overview. **Journal of Autism and Epilepsy**, 2016; 1(2): 1008. IF:0.00
21. Tasleem Akhtar and **Ghazanfar Ali***. DNA barcoding of *Schizothorax* species from Neelum and Jhelum Rivers of Azad Jammu and Kashmir. **Mitochondrial DNA Part B-Resources** 2016; 1(1): 934-936. IF:0.561
22. Tasleem Akhtar, Nuzhat Shafi and **Ghazanfar Ali***. Length-weight relationship, condition factor and sex-ratio of snow trout (*Schizothorax plagiostomus*, Heckel, 1938) from Neelum and Jhelum rivers, Muzaffarabad, Azad Kashmir. **International Journal of Fisheries and Aquatic Studies**. 2016; 4(3): 513-517. IF:0.00
23. Ullah E, Nadeem Saqib MA, Sajid S, Shah N, Zubair M, Khan MA, Ahmed I, **Ali G**, Dutta AK, Danda S, Lao R, Ling-Fung Tang P, Kwok PY, Ansar M, Slavotinek A. Genetic analysis of consanguineous families presenting with congenital ocular defects. **Experimental Eye Research**. 2016 Mar 16; 146:163-171. IF:2.998
24. Ansar M, Jan A, Santos-Cortez RL, Wang X, Suliman M, Acharya A, Habib R, Abbe I, **Ali G**, Lee K, Smith JD; University of Washington Center for Mendelian Genomics, Nickerson DA, Shendure J, Bamshad MJ, Ahmad W, Leal SM. Expansion of the spectrum of ITGB6-related disorders to adolescent alopecia, dentogingival abnormalities and intellectual disability. **European Journal of Human Genetics**. 2016 Aug;24(8):1223-7. IF:3.650
25. Nadine Kraemer, Sylvie Picker-Minh, Ansar A Abbasi, Sebastian Fröhler, Olaf Ninnemann, Muhammad N Khan, **Ghazanfar Ali**, Wei Chen, Angela M Kaindl. Genetic causes of MCPH in consanguineous Pakistani families. **Clinical Genetics**. 2016 Jun;89(6):744-5. IF:4.104
26. Raja Hussain Ali, Sayed Hajan Shah, Bakht Tarin Khan, Qaiser Zaman, Ajab Gul, Sabba Mahmood, Syed Irfan Raza, Abdul Aziz, Irfanullah, Syed Kamran-ul-Hassan Naqvi, Naveed Wasif, **Ghazanfar Ali**, Saadulah Khan, Abdul Wali, Muhammad Khisroon, Muhammad Ansar, Sulman Basit, Wasim Ahmad. Genetic analysis of Xp22.3 micro-deletions in seventeen families segregating isolated form of X-linked ichthyosis. **Journal of Dermatological Science**. 2015 Dec; 80(3):214-217. IF:3.986

27. Habib R, Ansar M, Mattheisen M, Shahid M, **Ali G**, Ahmad W, Betz RC. A Novel Locus for Ectodermal Dysplasia of Hair, Nail and Skin Pigmentation Anomalies Maps to Chromosome 18p11.32-p11.31. **PLoS One**. 2015 Jun 26; 10(6):e0129811. IF:2.776
28. Rafiq M, Leblond CS, Saqib M, Vincent A, Ambalavanan A, Khan F, Ayaz M, Shaheen N, Spiegelman D, **Ali G**, Amin-ud-din M, Laurent S, Mahmood H, Christian M, Ali N, Fennell A, Nanjiani Z, Egger G, Caron C, Waqas A, Ayub M, Rasheed S, Forgeot d'Arc B, Johnson A, So J, Brohi M, Motttron L, Ansar M, Vincent JB, Xiong L. Novel VPS13B Mutations in Three Large Pakistani Cohen Syndrome Families Suggests a Baloch Variant with Autistic-Like Features. **BMC Medical Genetics**. 2015, 16:41. IF:1.740
29. Mehmood S, Jan A, Muhammad D, Ahmad F, Mir H, Younus M, **Ali G**, Ayub M, Ansar M, Ahmad W. Mutations in the lipase-H gene causing autosomal recessive hypotrichosis and woolly hair. **Australasian Journal of Dermatology**. 2015 Aug; 56(3):e66-70. IF:1.701
30. Rosalind Law, Tracy Dixon-Salazar, Julie Jerber , Na Cai, Ansar A. Abbasi, Maha S. Zaki, Kirti Mittal, Stacey B. Gabriel, Muhammad Arshad Rafiq, Valeed Khan, Maria Nguyen, **Ghazanfar Ali**, Brett Copeland, Eric Scott, Nasim Vasli, Anna Mikhailov, Muhammad Nasim Khan, Danielle M. Andrade, Muhammad Ayaz, Muhammad Ansar, Muhammad Ayub, John B. Vincent, Joseph G. Gleeson. Biallelic Truncating Mutations in FMN2, Encoding the Actin-Regulatory Protein Formin 2, Cause Non-Syndromic Autosomal Recessive Intellectual Disability. **American Journal of Human Genetics**. 2014; 95(6):721-728. IF:9.924
31. **Ali G**, Amer HM, Almajhdi FN. Hemagglutinin and Neuraminidase Genes of Influenza B viruses circulating in Riyadh, Saudi Arabia during 2010-2011: Evolution and Sequence Analysis. **Journal of Medical Virology**. 2013; 86(6):1003-16. IF:2.049
32. Almajhdi FN, **Ali G***. Report on Influenza A and B Viruses: their Co-infection in a Saudi Leukemia Patient. **BioMed Research International**. 2013 Jul. doi: 10.1155/2013/290609. IF:2.197
33. Mir H, Khan S, Arif MS, **Ali G**, Wali A, Ansar M, Ahmad W. Mutations in the gene phospholipase C, delta-1 (PLCD1) underlying hereditary leukonychia. **European Journal of Dermatology**. 2012 Nov-Dec; 22(6):736-9. IF:3.094
34. Masood Hussain Rao, Ghazala Mohyuddin Arain, Misbahul Islam Khan, Ijaz-ul-Haque Taseer, Kanaya Lal Talreja, **Ghazanfar Ali**, Muhammad Khashif Munir, Saima Naz, Iqbal Hussain, Jamil Ahmed. Assessment of Knowledge, Attitude and Practices Pattern of Hand Washing in Some Major Public Sector Hospitals of Pakistan (A Multi-Center Study). **Pakistan Journal of Medical Research**. 2012; 51 (3): 76-82. IF:0.00
35. Nasim S, Shahid A, Mustufa MA, Arain GM, **Ali G**, Taseer IU, Talreja KL, Firdous R, Iqbal R, Siddique SA, Naz S, Akhter T. Biosafety perspective of clinical laboratory workers: a profile of Pakistan. **Journal of Infection in Developing Countries**. 2012 Aug 21; 6(8):611-9. IF:1.175
36. Khan MA, Rafiq MA, Noor A, Hussain S, Flores JV, Rupp V, Vincent AK, Malli R, **Ali G**, Khan FS, Ishak GE, Doherty D, Weksberg R, Ayub M, Windpassinger C, Ibrahim S, Frye M, Ansar M, Vincent JB. Mutation in NSUN2, which Encodes an RNA Methyltransferase, Causes Autosomal-Recessive Intellectual Disability. **American Journal of Human Genetics**. 2012 May 4; 90(5):856-63. IF:9.924
37. Rafiq MA, Kuss AW, Puettmann L, Noor A, Ramiah A, **Ali G**, Hu H, Kerio NA, Xiang Y, Garshasbi M, Khan MA, Ishak GE, Weksberg R, Ullmann R, Tzschach A, Kahrizi K, Mahmood K, Naeem F, Ayub M, Moremen KW, Vincent JB, Ropers HH, Ansar M, Najmabadi H. Mutations in the alpha 1,2-mannosidase gene, MAN1B1, cause autosomal-recessive intellectual disability. **American Journal of Human Genetics**. 2011 Jul 15; 89(1):176-82. IF:9.924
38. Azeem Z, Wasif N, Basit S, Razak S, Waheed RA, Islam A, Ayub M, Kafaitullah, Kamran-ul-hassan Naqvi S, **Ali G**, Ahmad W. Congenital atrichia with papular lesions resulting from novel mutations in human hairless gene in four consanguineous families. **Journal of Dermatology**. 2011 Aug; 38(8):755-60. IF:3.377

39. **Ali G**, Lee K, Andrade PB, Basit S, Santos-Cortez RL, Chen L, Jelani M, Ansar M, Ahmad W, Leal SM. Novel autosomal recessive nonsyndromic hearing impairment locus DFNB90 maps to 7p22.1-p15.3. **Human Heredity**. 2011; 71(2):106-12. **IF:0.556**
40. Khan S, Basit S, Zimri F, Ali N, **Ali G**, Ansar M, Ahmad W. A novel homozygous missense mutation in WNT10B in familial split-hand/foot malformation. **Clinical Genetics**. 2012 Jul; 82(1):48-55. **IF:4.104**
41. Khan MA, Rafiq MA, Noor A, Ali N, **Ali G**, Vincent JB, Ansar M. A novel deletion mutation in the TUSC3 gene in a consanguineous Pakistani family with autosomal recessive nonsyndromic intellectual disability. **BMC Medical Genetics**. 2011 Apr 22; 12:56. **IF:1.740**
42. Khan S, Habib R, Mir H, Umm-e-Kalsoom, Naz G, Ayub M, Shafique S, Yamin T, Ali N, Basit S, Wasif N, Kamran-UI-Hassan Naqvi S, **Ali G**, Wali A, Ansar M, Ahmad W. Mutations in the LPAR6 and LIPH genes underlie autosomal recessive hypotrichosis/ woolly hair in 17 consanguineous families from Pakistan. **Clinical and Experimental Dermatology**. 2011 Aug; 36(6):652-4. **IF:1.771**
43. **Ali G***. Hereditary Alopecia in Pakistani families. **Journal of the Pakistan Medical Association**. 2010 October; 60(10):792-793. **IF:0.642**
44. Basit S, **Ali G**, Wasif N, Ansar M, Ahmad W. Genetic mapping of a novel hypotrichosis locus to chromosome 7p21.3-p22.3 in a Pakistani family and screening of the candidate genes. **Human Genetics**. 2010 Aug; 128(2):213-220. **IF:5.207**
45. **Ali G***. Genetic deafness in Pakistani population. **Journal of the Pakistan Medical Association**. 2010 Jun; 60(6):418-419. **IF:0.642**
46. Rafiq MA, Ansar M, Marshall CR, Noor A, Shaheen N, Mowjoodi A, Khan MA, **Ali G**, Amin-Ud-Din M, Feuk L, Vincent JB, Scherer SW. Mapping of three novel loci for non-syndromic autosomal recessive mental retardation (NS-ARMR) in consanguineous families from Pakistan. **Clinical Genetics**. 2010; 78(5): 478-483. **IF:4.104**
47. Wasif N, Tariq M, **Ali G**, Hassan MJ, Ahmad W. A Novel Splice Site Mutation in the EDAR Gene Underlies Autosomal Recessive Hypohidrotic Ectodermal Dysplasia in a Pakistani Family. **Pediatric Dermatology**. 2010 Jan 1; 27(1):106-108. **IF:1.178**
48. Kamran-UI-Hassan Naqvi S, Azeem Z, **Ali G**, Ahmad W. A novel splice-acceptor site mutation in CDH3 gene in a consanguineous family exhibiting hypotrichosis with juvenile macular dystrophy. **Archives of Dermatological Research**. 2010 Nov; 302(9):701-703. **IF:2.309**
49. Schraders M, Lee K, Oostrik J, Huygen PL, **Ali G**, Hoefsloot LH, Veltman JA, Cremers FP, Basit S, Ansar M, Cremers CW, Kunst HP, Ahmad W, Admiraal RJ, Leal SM, Kremer H. Homozygosity Mapping Reveals Mutations of GRXCR1 as a Cause of Autosomal-Recessive Nonsyndromic Hearing Impairment. **American Journal of Human Genetics**. 2010 Feb 12; 86(2):138-147. **IF:9.924**
50. Kalsoom UE, Habib R, Khan B, **Ali G**, Ali N, Ansar M, Ahmad W. Mutations in lipase H gene underlie autosomal recessive hypotrichosis in five pakistani families. **Acta Dermato Venereologica**. 2010; 90(1):93-4. **IF:3.127**
51. Naz G, **Ali G**, Kamran-UI-Hassan Naqvi S, Azeem Z, Ahmad W. Mapping of a novel autosomal recessive hypotrichosis locus on chromosome 10q11.23-22.3. **Human Genetics**. 2010; 127(4):395-401. **IF:5.207**
52. Kousar R, Nawaz H, Khurshid M, **Ali G**, Khan SU, Mir H, Ayub M, Wali A, Ali N, Jelani M, Basit S, Ahmad W, Ansar M. Mutation Analysis of the ASPM Gene in 18 Pakistani Families With Autosomal Recessive Primary Microcephaly. **Journal of Child Neurology**. 2010; 25(6) 715-720. **IF:2.092**

53. **Ghazanfar Ali***, Syed Sohail Zahoor Zaidi, Naseeb Zaman. Seroprevalence of measles antibodies in children at school going age in Islamabad, Pakistan. **Pakistan Journal of Medical Research**. 2009 April; 48(2):31-34. IF:0.00
54. Schultz JM, Khan SN, Ahmed ZM, Riazuddin S, Waryah AM, Chhatre D, Starost MF, Ploplis B, Buckley S, Velásquez D, Kabra M, Lee K, Hassan MJ, **Ali G**, Ansar M, Ghosh M, Wilcox ER, Ahmad W, Merlino G, Leal SM, Riazuddin S, Friedman TB, Morell RJ. Noncoding Mutations of HGF Are Associated with Nonsyndromic Hearing Loss, DFNB39. **American Journal of Human Genetics**. 2009 Jul; 85(1):25-39. IF:9.924
55. Azeem Z, Naqvi SK, Ansar M, Wali A, Naveed AK, **Ali G**, Hassan MJ, Tariq M, Basit S, Ahmad W. Recurrent mutations in functionally-related EDA and EDAR genes underlie X-linked isolated hypodontia and autosomal recessive hypohidrotic ectodermal dysplasia. **Archives of Dermatological Research**. 2009 Sep; 301(8):625-629. IF:2.309
56. Tariq M, Ayub M, Jelani M, Basit S, Naz G, Wasif N, Raza SI, Naveed AK, Ullah Khan S, Azeem Z, Yasinzaï M, Wali A, **Ali G**, Chishti MS, Ahmad W. Mutations in the P2RY5 gene underlie autosomal recessive hypotrichosis in 13 Pakistani families. **British Journal of Dermatology**. 2009 May; 160(5):1006-10. IF:6.714
57. Naz G, Khan B, **Ali G**, Azeem Z, Wali A, Ansar M, Ahmad W. Novel missense mutations in lipase H (LIPH) gene causing autosomal recessive hypotrichosis (LAH2). **Journal of Dermatological Science**. 2009 Apr; 54(1):12-6. IF:3.986
58. Tariq M, Azeem Z, **Ali G**, Salman Chishti M, Ahmad W. A mutation in HPGD gene encoding NAD⁺-dependent 15-hydroxyprostaglandin dehydrogenase underlies an isolated congenital nail clubbing (ICNC). **Journal of Medical Genetics**. 2009 Jan; 46(1):14-20. IF:5.899
59. Basit S, Naqvi SK, Wasif N, **Ali G**, Ansar M, Ahmad W. A novel insertion mutation in the cartilage-derived morphogenetic protein-1 (CDMP1) gene underlies Grebe-type chondrodysplasia in a consanguineous Pakistani family. **BMC Medical Genetics**. 2008 Nov 27; 9:102. IF:1.740
60. Azeem Z, Jelani M, Naz G, Tariq M, Wasif N, Kamran-Ul-Hassan Naqvi S, Ayub M, Yasinzaï M, Amin-Ud-Din M, Wali A, **Ali G**, Chishti MS, Ahmad W. Novel mutations in G protein-coupled receptor gene (P2RY5) in families with autosomal recessive hypotrichosis (LAH3). **Human Genetics**. 2008 Jun; 123(5):515-9. IF:5.207
61. Jelani M, Wasif N, **Ali G**, Chishti MS, Ahmad W. A novel deletion mutation in LIPH gene causes autosomal recessive hypotrichosis (LAH2). **Clinical Genetics**. 2008 Aug; 74(2):184-8. IF:4.104
62. Tariq M, Chishti MS, **Ali G**, Ahmad W. A novel locus for ectodermal dysplasia of hairs, nails and teeth type maps to chromosome 18q22.1-22.3. **Annals of Human Genetics**. 2008 Jan; 72 (Pt 1):19-25. IF:1.319
63. Hassan MJ, Mahmood S, **Ali G**, Bibi N, Waheed I, Rafiq MA, Ansar M, Ahmad W. Intragenic deletions in the dystrophin gene in 211 Pakistani Duchenne muscular dystrophy patients. **Pediatrics International**. 2008 Apr; 50(2):162-6. IF:0.939
64. Gul A, Tariq M, Khan MN, Hassan MJ, **Ali G**, Ahmad W. Novel protein-truncating mutations in the ASPM gene in families with autosomal recessive primary microcephaly. **Journal of Neurogenetics**. 2007 Jul; 21(3):153-63. IF:1.698
65. Hassan MJ, Khurshid M, Azeem Z, John P, **Ali G**, Chishti MS, Ahmad W. Previously described sequence variant in CDK5RAP2 gene in a Pakistani family with autosomal recessive primary microcephaly. **BMC Medical Genetics**. 2007 Sep 1; 8:58. IF:1.740

66. Wali A, Chishti MS, Ayub M, Yasinzai M, Kafaitullah, **Ali G**, John P, Ahmad W. Localization of a novel autosomal recessive hypotrichosis locus (LAH3) to chromosome 13q14.11-q21.32. **Clinical Genetics**. 2007 Jul; 72(1):23-9. **IF**:4.104
67. Naeem M, John P, **Ali G**, Ahmad W. Pure hair-nail ectodermal dysplasia maps to chromosome 12p11.1-q21.1 in a consanguineous Pakistani family. **Clinical and Experimental Dermatology**. 2007 Sep; 32(5):502-5. **IF**:1.771
68. Wali A, **Ali G**, John P, Lee K, Chishti MS, Leal SM, Ahmad W. Mapping of a Gene for Alopecia with Mental Retardation Syndrome (APMR3) on Chromosome 18q11.2-q12.2. **Annals of Human Genetics**. 2007 Sep; 71(Pt 5):570-7. **IF**:1.319
69. **Ali G**, Chishti MS, Raza SI, John P, Ahmad W. A mutation in the lipase H (LIPH) gene underlie autosomal recessive hypotrichosis. **Human Genetics**. 2007 May; 121(3-4):319-25. **IF**:5.207
70. Naeem M, Jelani M, Lee K, **Ali G**, Chishti MS, Wali A, Gul A, John P, Hassan MJ, Leal SM, Ahmad W. Ectodermal dysplasia of hair and nail type: mapping of a novel locus to chromosome 17p12-q21.2. **British Journal of Dermatology**. 2006 Dec; 155(6):1184-90. **IF**:6.714
71. Wali A, John P, Gul A, Lee K, Chishti MS, **Ali G**, Hassan MJ, Leal SM, Ahmad W. A novel locus for alopecia with mental retardation syndrome (APMR2) maps to chromosome 3q26.2-q26.31. **Clinical Genetics**. 2006 Sep; 70(3):233-9. **IF**:4.104
72. Santos RL, Hassan MJ, Sikandar S, Lee K, **Ali G**, Martin PE Jr, Wambangco MA, Ahmad W, Leal SM. DFNB68, a novel autosomal recessive non-syndromic hearing impairment locus at chromosomal region 19p13.2. **Human Genetics**. 2006 Aug; 120(1):85-92. **IF**:5.207
73. Gul A, Hassan MJ, Mahmood S, Chen W, Rahmani S, Naseer MI, Dellefave L, Muhammad N, Rafiq MA, Ansar M, Chishti MS, **Ali G**, Siddique T, Ahmad W. Genetic studies of autosomal recessive primary microcephaly in 33 Pakistani families: Novel sequence variants in ASPM gene. **Neurogenetics**. 2006 May; 7(2):105-10. **IF**:3.017
74. **Ali G**, Santos RL, John P, Wambangco MA, Lee K, Ahmad W, Leal S. The mapping of DFNB62, a new locus for autosomal recessive non-syndromic hearing impairment, to chromosome 12p13.2-p11.23. **Clinical Genetics**. 2006 May; 69(5):429-33. **IF**:4.104
75. John P, **Ali G**, Chishti MS, Naqvi SM, Leal SM, Ahmad W. Localization of a novel locus for alopecia with mental retardation syndrome to chromosome 3q26.33-q27.3. **Human Genetics**. 2006 Jan; 118(5):665-7. **IF**:5.207
76. Santos RL, Wajid M, Pham TL, Hussan J, **Ali G**, Ahmad W, Leal SM. Low prevalence of Connexin 26 (GJB2) variants in Pakistani families with autosomal recessive non-syndromic hearing impairment. **Clinical Genetics**. 2005 Jan; 67(1):61-8. **IF**:4.104

INVITED PRESENTATIONS IN CONFERENCES

1. An oral presentation on "Clinical and Molecular Characterization of Congenital Alopecia with Mental Retardation Syndrome (APMR4) in Pakistani Family" in "**39th Pakistan Congress of Zoology**" dated on 4-6th March 2019; organized by Department of Zoology, Islamia College University, Peshawar, Pakistan.
2. An oral talk in "**First International Conference on Advancements in Biotechnology & Biocomputing (AB2 2019)**" dated on 7-9th February, 2019; organized by Department of Biological Sciences, International Islamic University, Islamabad, Pakistan.
3. An oral presentation on "A Homozygous c.1131G>A Missense Mutation in BBS9 Gene Manifesting Autosomal Recessive Bardet-Biedl Syndrome in Consanguineous Kashmiri Family" in "**38th Pakistan**

Congress of Zoology" dated on 27 February- 1st March 2018; organized by Department of Zoology, University of the Punjab, Lahore, Pakistan.

4. An oral presentation on "Genetic mapping of autosomal recessive hair disorders in five Kashmiri families from Pakistani origin" in **12th Malaysia International Genetics Congress (MiGC12)**, dated 25-27th September 2017; organized by University of Putrajaya Malaysia.
5. As an invited speaker delivered oral talk on "Phylogenetic analysis and DNA barcoding of schizothorax species from Neelum and Jhelum rivers of Azad Jammu and Kashmir" in international conference on **"Latest Trends in Domestic and Wild Animal Genomics and Biotechnology"** dated on 21-22 November, 2016 organized by Virtual University of Pakistan.
6. Plenary lecture delivered on the topic: "Types and causes of genetic disorders in Pakistani population and need of their genetic counseling" in one day national symposium titled **"Potential Impact of Genetic Testing and Counseling"** dated on 4th August, 2016 organized by Virtual University of Pakistan.
7. As an invited speaker presented on **"Prevalence of various types of genetic diseases in Kashmiri families"** on 20th May 2016 organized by Department of Biotechnology, University of Kotli, Azad Jammu and Kashmir, Pakistan.
8. As an invited speaker presented on **"Bioinformatics as a tool for Biological Studies"** in two days training and symposium on 27-28th May 2015 organized by Department of Zoology, University of Azad Jammu and Kashmir, Muzaffarabad, Pakistan.
9. An oral presentation on **"Identification of novel mutations in different types of Alopecias in Pakistani families"** in one day symposium dated 20th June 2013 organized by the Department of Zoology, University of Azad Jammu and Kashmir, Muzaffarabad, Pakistan.
10. Participated in 6th International Fisheries Symposium & Expo-2017 **"Innovative and Sustainable Aquaculture for Blue Revolution"** Dated 8-9th February 2017.
11. Participated in one day symposium on **"Dr. S. Qasim Mehdi Memorial Symposium- Human Population and Disease Genomics"** organized by COMSTECH, Islamabad, Pakistan, dated on 10-12th April 2017.
12. Poster Presentation on "Leptin inefficiency links obesity with lung complications" in **4th Med-Summer Endocrine Conference** organized by Pakistan Endocrine Society of Pakistan from 13-15th May, 2016 at Pearl Continental Hotel, Muzaffarabad, AJK, Pakistan.

CONFERENCES/ SEMINARS ORGANIZED

1. 2nd International Science Conference on **"Natural Sciences, Climate & Biodiversity"** Organized by Faculty of Sciences, The University of Azad Jammu & Kashmir, Muzaffarabad, Pakistan 15-17th September 2018 (**Organized as a Secretary Publications**).
2. One day seminar on **"Research, Production, Processing & Marketing of Mushrooms"** on 5th May 2016, organized as a Chairman, Department of Biotechnology, University of Azad Jammu and Kashmir, Muzaffarabad, Pakistan.

SEMINARS/ SYMPOSIUM/ WORKSHOPS ATTENDED

1. Participated in one day seminar on **"Anticancer Molecular Mechanisms of Medicinally Important Scaffolds"** organized by the Department of Chemistry, University of Azad Jammu and Kashmir, Muzaffarabad, Pakistan dated 3rd October, 2019.
2. Presented in **"4th Invention to Innovation Summit KP 2018"** Organized by CECOS University Peshawar, Dated 22-23rd November 2018.

3. Participated in one day seminar on **“Solid waste Recycling via vermin-composting”** organized by the Department of Zoology, University of Azad Jammu and Kashmir, Muzaffarabad, Pakistan dated 15th November 2018.
4. Participated in one day workshop on **“Patent Writing”** organized by the ORIC, University of Azad Jammu and Kashmir, Muzaffarabad, Pakistan dated 7th November 2018.
5. Participated in **“Invention to Innovation Summit 2016”** Organized by UET Peshawar, Dated 16-17th November 2016.
6. Participated in one day seminar on **“Hepatitis B & C awareness, treatment and prevention”** organized by the Department of Zoology, University of Azad Jammu and Kashmir, Muzaffarabad, Pakistan dated 2016.
7. One day International Nanomedicine Symposium **“Nanotheranostics: A new concept in imaging and drug delivery”** dated 26th November 2015.
8. International workshop on **“Bioinformatics: Ensemble database mining and whole genome sequencing analysis”** dated 16-18th December, 2014 organized by COMSTECH, Islamabad.
9. One day Seminar on **“Crystallography”** dated 17th March, 2014 organized by Department of Chemistry, University of Azad Jammu and Kashmir, Muzaffarabad.

TRAINING COURSE ATTENDED

1. One day **“Bioinformatics workshop: Hands on Training on Analysis of Biological Data Using R”** dated 5th January, 2016 organized by Department of Bioinformatics & Computational Biology, Virtual University of Pakistan.
2. Training Course on **“Advances in Collection of Micro-organisms and Cell Cultures”** organized by Department of Biosciences, COMSATS Institute of Information Technology dated 11th March, 2014.
3. Training Course on **“Health Promotion”** organized by Health Services Academy, Ministry of Health, Government of Pakistan in Collaboration with World Health Organization dated 12 -16th January, 2009.
4. Training **“Course on Qualitative Research Methods”**. Health Services Academy, Ministry of Health, Government of Pakistan dated 14-17th July, 2008.
5. National Training Workshops for **“Establishing Institutional Ethics Review Committees in Pakistan”** dated 28-30 September 2005, Islamabad.

OTHER RESEARCH CONTRIBUTIONS

Journal Reviewer:

<https://publons.com/researcher/1723570/ghazanfar-ali/>

Assay and Drug Development Technologies

The Journal of Gene Medicine

DNA and Cell Biology

Medical Case Studies

Brazilian Journal of Biology

SM Journal of Neurological Disorders and Stroke

TEACHING

M.Phil and Ph.D Classroom Activities

Course Title	Course Code	Credit Hours
Recombinant DNA Technology	BIOT-7103	3(3+0)
Instrumentation and good Laboratories practices	BIOT-7104	3(2+1)
Bio-safety and Bioethics	BIOT-7105	1(1+0)
Techniques in Biotechnology	BIOT-7106	3(3+0)
Human Molecular Genetics and Various Disorders	BIOT-7202	3(3+0)
Bio-informatics	BIOT-7205	3(3+0)
Animal Biotechnology	BIOT-7207	3(3+0)
Biological Resources Management	BIOT-8101	3(3+0)
Advances in Biotechnological Research	BIOT-8103	3(3+0)
Advances in Animal Biotechnology	BIOT-8213	3(3+0)
Advances in Computational Biology	BIOT-8218	3(3+0)

THESIS/RESEARCH PROJECT SUPERVISION

Ph.D Students Supervised

1. Zahid Latif (Session: 2010-13)

Project Title: Genetic Mapping of Autosomal Recessive Hereditary Ophthalmic and Ectodermal Dysplasias in Families of Azad Jammu and Kashmir.

2. Tasleem Akhtar (Session: 2012-15)

Project Title: Phylogenetic Analysis and DNA bar-coding of Schizothorax species from Neelum and Jhelum rivers of Azad Jammu and Kashmir.

3. Syeda Ain-ul-Batool (Session: 2012-15)

Project Title: Genetic Mapping of genes involved in mental retardation in consanguineous families from Azad Jammu and Kashmir.

4. Syeda Maria Fiaz Bukhari (Session: 2013-17)

Project Title: Morpho-ethnobotanical, biochemical and molecular study of berberis lycium royle L grown in Azad Jammu and Kashmir, Pakistan. (Thesis Evaluation Reports Received)

Ph.D Students Under Supervision

5. Sadia (Session: 2015-18)

Project Title: Molecular Genetic Study of Inherited Skin and Neurological Disorders in Kashmiri Families. (Thesis Under Writing)

6. Amina Jabeen (Session: 2016-19)

Project Title: Nanotechnological applications in Water Purification and Waste Water treatment. (Thesis Under Writing)

7. Naheed Bashir Awan (Session: 2016-19)

Project Title: Identification of genes involved in visual impairment and hair disorders in consanguineous families. (Thesis Research Ongoing)

8. Abdul Waheed (Session: 2016-19)

Project Title: Genetic mapping of autosomal recessive hereditary hair loss and intellectual disability in families from Azad Jammu and Kashmir, Pakistan. (Thesis Research Ongoing)

9. Muhammad Qudir Javid (Session: 2017-20)

Project Title: Identification of genes causing hearing impairment and intellectual disability in families from Azad Jammu and Kashmir, Pakistan. (Thesis Research Ongoing)

10. Mohsin Hanif (Session: 2016-19)

Project Title: Study of genes involved in alopecia and intellectual disability in Kashmiri population. (Thesis Research Ongoing)

M.Phil Students Supervised

1. Saiba Ferdoos (Session: 2012-14)

Project Title: Sero-prevalence of measles antibodies in children at school going age in Azad Jammu & Kashmir.

2. Sadia (Session: 2012-14)

Project Title: A study of families showing human hereditary alopecias from Azad Jammu & Kashmir.

3. Farhat Rafique Kiani (Session: 2012-14)

Project Title: Genetic mapping of families with primary microcephaly from population of Azad Jammu & Kashmir.

4. Naheed Bashir Awan (Session: 2012-14)

Project Title: Molecular genetic studies in Kashmiri families with hereditary hair loss.

5. Amina Jabeen (Session: 2012-14)

Project Title: Molecular screening of Hepatitis B and C viruses in adjacent areas of District Muzaffarabad.

6. Muhammad Nazim-ud-din (Session: 2012-14)

Project Title: Genetic mapping in families with genetic polydactyly prevalent in population of Azad Jammu and Kashmir, Pakistan.

7. Fozia Saeed (Session: 2012-14)

Project Title: Molecular Genetic Study of Hereditary Intellectual Disability in Population of Azad Jammu and Kashmir.

8. Abdul Waheed (Session: 2012-14)
Project Title: Homozygosity mapping of autosomal recessive hereditary hair loss in families from Azad Jammu and Kashmir.
9. Ulfat (Session: 2012-14)
Project Title: Phylogenetic Study of Rainbow Trout (*Oncorhynchus Mykiss*) of Azad Jammu and Kashmir.
10. Mohsin Hanif (Session: 2013-15)
Project Title: Study of Genetic and Molecular Basis of Alopecias in families from Azad Jammu and Kashmir.
11. Samina Sarwar (Session: 2013-15)
Project Title: Linkage Studies of Inherited Primary Microcephaly in Kashmiri Families.
12. Muhammad Zaheer Awan (Session: 2013-15)
Project Title: Molecular genetic study of Kashmiri families with Primary Microcephaly and Intellectual Disability.
13. Qurrat-ul-ain Gillani (Session: 2013-15)
Project Title: Autosomal recessive ectodermal dysplasias in an inbred Kashmiri families.
14. Zeeshan Anjum (Session: 2014-16)
Project Title: Lead findings from the whole plant of *Berberis Lyceum Royle* through in-silico methods.
15. Irsa Mumtaz (Session: 2014-16)
Project Title: Phylogenetic study of *Tor Putitora* through 16s ribosomal RNA and cytochrome oxidase-1 subunit gene.
16. Dahood Ahmad (Session: 2014-16)
Project Title: Molecular genetic study of albinism in families from Azad Jammu and Kashmir.
17. Muhammad Qudir Javid (Session: 2014-16)
Project Title: Genetic mapping of mental retardation in families from Azad Jammu and Kashmir, Pakistan.
18. Sadia Arif (Session: 2014-16)
Project Title: Homozygosity mapping of hereditary hearing impairment in families from Azad Jammu and Kashmir, Pakistan.
19. Maimoona Tahir (Session: 2014-16)
Project Title: Screening of deafness associated genes in inbred Kashmiri Families.
20. Tooba Khanum (Session: 2015-17)
Project Title: Genetic mapping of inherited intellectual disability in families residing in Azad Jammu & Kashmir, Pakistan.
21. Taqdees Fatima (Session: 2015-17)
Project Title: Mapping of autosomal recessive genes involved in human hereditary genodermatosis in Azad Jammu and Kashmir, Pakistan.
22. Sara Iftikhar (Session: 2015-17)
Project Title: Molecular genetic study of ophthalmic disorders in families from Azad Jammu and Kashmir.

23. Momina Ijaz (Session: 2015-17)
Project Title: Identification of Genes Underlying skeletal dysplasia in Kashmiri families from Azad Jammu & Kashmir.
24. Syed Iftikhar Sherazi (Session: 2015-17)
Project Title: Phylogenetic investigation of ND genes in Schizothorax species from rivers of Azad Jammu and Kashmir.
25. Sadia Mumtaz (Session: 2015-17)
Project Title: Molecular phylogeny of mitochondrial genes of Schizothoracine in rivers of Azad Jammu and Kashmir, Pakistan.
26. Nadia Ashraf (Session: 2015-17)
Project Title: A study on phytochemical, toxicological analysis and antioxidant activity of Taraxacum officinale.
27. Naveed Ahmad Blouch (Session: 2015-17)
Project Title: Antibiotics susceptibility and molecular characterization of antibiotics resistance in uropathogenic escherichia coli isolates.
28. Shahzada Faisal Khan (Session: 2016-18)
Project Title: Genetic mapping of Neurological Disorders in Families from District Neelum, Azad Jammu and Kashmir, Pakistan.
29. Javaid Ahmad (Session: 2016-18)
Project Title: Genetic diversity and functional analysis of cis-regulatory elements in atpB gene promoter of different apple varieties of Azad Jammu and Kashmir.
30. Sobia Safeer (Session: 2016-18)
Project Title: A study on Inherited Skeletal Deformities in Kashmiri Families.
31. Sawaira Aurangzeb (Session: 2016-18)
Project Title: Genetic mapping of consanguineous Kashmiri families having oculocutaneous Albinism.
32. Sara Nazir Mughal (Session: 2016-18)
Project Title: Biosynthesis, characterization and antimicrobial action of silver nanoparticles using flower extract of Chamomilla recutita.
33. Kashaf Sharif (Session: 2016-18)
Project Title: Molecular Genetic Study of Microcephaly and Intellectual Disability in Families from Azad Jammu and Kashmir.
34. Muhammad Adil (Session: 2016-18)
Project Title: A study of Kashmiri families showing genetically inherited Alopecia and Primary Microcephaly.
35. Tazeema Hakim (Session: 2016-18)
Project Title: Identification of genes involved in bone deformities in families from Azad Jammu and Kashmir, Pakistan
36. Aasim Gillani (Session: 2016-18)

Project Title: Multidrug resistance pattern in Mycobacterium Tuberculosis to the antibiotics of pulmonary tuberculosis patients from region of Azad Kashmir.

37. Tasneem Bibi (Session: 2016-18)

Project Title: Mapping of genes causing albinism in families from Azad Jammu and Kashmir, Pakistan

38. Maria Basharat (Session: 2016-18)

Project Title: Etiological factor for the onset of dilated cardiomyopathy among patients admitted in CCU Abbas Institute of Medical Sciences, Muzaffarabad. (Thesis under evaluation)

39. Rana Zahid Wali (Session: 2016-18)

Project Title: Epidemiology, serology and molecular diagnosis of suspected cases of measles from AJK reporting to NIH Islamabad. (Thesis under evaluation)

M.Phil Students Under Supervision

40. Naheed Muzaffar (Session: 2018-18)

Project Title: A study on autosomal recessive ocular disorders in families from Azad Jammu and Kashmir, Pakistan.

41. Sohail Akbar Abbasi (Session: 2018-18)

Project Title: Green synthesis of Pronus Persica against antimicrobial pathogens.

42. Mehwish Iqbal (Session: 2018-18)

Project Title: Genetic mapping of genes causing intellectual disability in families from Azad Jammu and Kashmir, Pakistan.

43. Akhlaq Ahmad (Session: 2018-18)

Project Title: Identification of genes causing genodermatosis in families from Azad Jammu and Kashmir, Pakistan.

44. Sadia Siraj (Session: 2018-18)

Project Title: Genetic mapping of consanguineous families presenting skeletal anomalies.

45. Sobia Altaf (Session: 2018-18)

Project Title: Molecular genetic study of intellectual disability in families from Azad Jammu and Kashmir, Pakistan.

ADMINISTRATIVE DUTIES (2013-PRESENT)

- **Head of Biotechnology Department**, University of Azad Jammu and Kashmir, Muzaffarabad, Pakistan since July, 2019 – Present.
- **Chairman**, Department of Biotechnology, University of Azad Jammu and Kashmir, Muzaffarabad, Pakistan since May, 2015 – May, 2016.
- **Acting Chairman**, Department of Biotechnology, University of Azad Jammu and Kashmir, Muzaffarabad, Pakistan since May, 2013- May, 2015.

- **Centre In-charge**, Pakistan Medical Research Council, Central Research Centre, NIH, Ministry of Health, Islamabad Pakistan.

ACADEMIC MEMBERSHIPS (2013-PRESENT)

- **Member, Ethical Review Committee**, University of Azad Jammu & Kashmir, Muzaffarabad Pakistan.
- **Member of Academic Council**, University of Azad Jammu & Kashmir, Muzaffarabad Pakistan.
- **Member of Board of Faculty**, University of Azad Jammu & Kashmir, Muzaffarabad Pakistan.
- **Convener Board of Studies**, Department of Biotechnology, University of Azad Jammu & Kashmir, Muzaffarabad Pakistan.
- **Convener Examination Committee**, Department of Biotechnology, University of Azad Jammu & Kashmir, Muzaffarabad Pakistan.
- **Convener Admission Committee**, Department of Biotechnology, University of Azad Jammu & Kashmir, Muzaffarabad Pakistan.
- **Synopsis Review Committee**, Department of Biotechnology, University of Azad Jammu & Kashmir, Muzaffarabad Pakistan.
- **Member QEC/ Expert of Assessment Team**, Department of Zoology, University of Poonch, Rawalakot, Pakistan.

LIST OF NOVEL SEQUENCES IN NCBI GENBANK

1. Bukhari, S. M. F., Abbas, S. R., Akhtar, T. and **Ali, G.** Berberis lycium, BI-1-rbcL-AJK-2018, ribulose-1, 5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast. Accession: MH142838.
2. Bukhari, S. M. F., Abbas, S. R., Akhtar, T. and **Ali, G.** Berberis lycium, BI-2-rbcL-AJK-2018, ribulose-1, 5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast. Accession: MH142839.
3. Bukhari, S. M. F., Abbas, S. R., Akhtar, T. and **Ali, G.** Berberis lycium, BI-3-rbcL-AJK-2018, ribulose-1, 5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast. Accession: MH142840.
4. Bukhari, S. M. F., Abbas, S. R., Akhtar, T. and **Ali, G.** Berberis lycium, BI-4-rbcL-AJK-2018, ribulose-1, 5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast. Accession: MH142841.
5. Bukhari, S. M. F., Abbas, S. R., Akhtar, T. and **Ali, G.** Berberis lycium, BI-5-rbcL-AJK-2018, ribulose-1, 5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast. Accession: MH142842.

6. Bukhari, S. M. F., Abbas, S. R., Akhtar, T. and **Ali, G.** *Berberis lycium*, BI-6-rbcL-AJK-2018, ribulose-1, 5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast. Accession: MH142843.
7. Bukhari, S. M. F., Abbas, S. R., Akhtar, T. and **Ali, G.** *Berberis lycium*, BI-7-rbcL-AJK-2018, ribulose-1, 5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast. Accession: MH142844.
8. Bukhari, S. M. F., Abbas, S. R., Akhtar, T. and **Ali, G.** *Berberis lycium*, BI-8-rbcL-AJK-2018, ribulose-1, 5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast. Accession: MH142845.
9. Bukhari, S. M. F., Abbas, S. R., Akhtar, T. and **Ali, G.** *Berberis lycium*, BI-9-rbcL-AJK-2018, ribulose-1, 5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast. Accession: MH142846.
10. Bukhari, S. M. F., Abbas, S. R., Akhtar, T. and **Ali, G.** *Berberis lycium*, BI-10-rbcL-AJK-2018, ribulose-1, 5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast. Accession: MH142847.
11. Bukhari, S. M. F., Abbas, S. R., Akhtar, T. and **Ali, G.** *Berberis lycium*, BI-11-rbcL-AJK-2018, ribulose-1, 5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast. Accession: MH142848.
12. Bukhari, S. M. F., Abbas, S. R., Akhtar, T. and **Ali, G.** *Berberis lycium*, BI-12-rbcL-AJK-2018, ribulose-1, 5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast. Accession: MH142849.
13. Bukhari, S. M. F., Abbas, S. R., Akhtar, T. and **Ali, G.** *Berberis lycium*, BI-13-rbcL-AJK-2018, ribulose-1, 5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast. Accession: MH142850.
14. Bukhari, S. M. F., Abbas, S. R., Akhtar, T. and **Ali, G.** *Berberis lycium*, BI-14-rbcL-AJK-2018, ribulose-1, 5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast. Accession: MH142851.
15. Bukhari, S. M. F., Abbas, S. R., Akhtar, T. and **Ali, G.** *Berberis lycium*, BI-15-rbcL-AJK-2018, ribulose-1, 5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast. Accession: MH142852.
16. Bukhari, S. M. F., Abbas, S. R., Akhtar, T. and **Ali, G.** *Berberis lycium*, BI-1-mat-k-AJK-2018, Maturase K (mat-k) gene, partial cds; chloroplast. Accession: MH198450.
17. Bukhari, S. M. F., Abbas, S. R., Akhtar, T. and **Ali, G.** *Berberis lycium*, BI-2-mat-k-AJK-2018, Maturase K (mat-k) gene, partial cds; chloroplast. Accession: MH198451.
18. Bukhari, S. M. F., Abbas, S. R., Akhtar, T. and **Ali, G.** *Berberis lycium*, BI-3-mat-k-AJK-2018, Maturase K (mat-k) gene, partial cds; chloroplast. Accession: MH198452.
19. Bukhari, S. M. F., Abbas, S. R., Akhtar, T. and **Ali, G.** *Berberis lycium*, BI-4-mat-k-AJK-2018, Maturase K (mat-k) gene, partial cds; chloroplast. Accession: MH198453.

20. Bukhari, S. M. F., Abbas, S. R., Akhtar, T. and **Ali, G.** *Berberis lycium*, BI-5-mat-k-AJK-2018, Maturase K (mat-k) gene, partial cds; chloroplast. Accession: MH198454.
21. Bukhari, S. M. F., Abbas, S. R., Akhtar, T. and **Ali, G.** *Berberis lycium*, BI-6-mat-k-AJK-2018, Maturase K (mat-k) gene, partial cds; chloroplast. Accession: MH198455.
22. Bukhari, S. M. F., Abbas, S. R., Akhtar, T. and **Ali, G.** *Berberis lycium*, BI-7-mat-k-AJK-2018, Maturase K (mat-k) gene, partial cds; chloroplast. Accession: MH198456.
23. Bukhari, S.M.F., Abbas, S.R., Akhtar, T. and **Ali, G.** *Berberis lycium*, BI-8-mat-k-AJK-2018, Maturase K (mat-k) gene, partial cds; chloroplast. Accession: MH198442.
24. Bukhari, S.M.F., Abbas, S.R., Akhtar, T. and **Ali, G.** *Berberis lycium*, BI-9-mat-k-AJK-2018, Maturase K (mat-k) gene, partial cds; chloroplast. Accession: MH198443.
25. Bukhari, S. M. F., Abbas, S. R., Akhtar, T. and **Ali, G.** *Berberis lycium*, BI-10-mat-k-AJK-2018, Maturase K (mat-k) gene, partial cds; chloroplast. Accession: MH198444.
26. Bukhari, S. M. F., Abbas, S. R., Akhtar, T. and **Ali, G.** *Berberis lycium*, BI-11-mat-k-AJK-2018, Maturase K (mat-k) gene, partial cds; chloroplast. Accession: MH198445.
27. Bukhari, S. M. F., Abbas, S. R., Akhtar, T. and **Ali, G.** *Berberis lycium*, BI-12-mat-k-AJK-2018, Maturase K (mat-k) gene, partial cds; chloroplast. Accession: MH198446.
28. Bukhari, S. M. F., Abbas, S. R., Akhtar, T. and **Ali, G.** *Berberis lycium*, BI-13-mat-k-AJK-2018, Maturase K (mat-k) gene, partial cds; chloroplast. Accession: MH198447.
29. Bukhari, S. M. F., Abbas, S. R., Akhtar, T. and **Ali, G.** *Berberis lycium*, BI-14-mat-k-AJK-2018, Maturase K (mat-k) gene, partial cds; chloroplast. Accession: MH198448.
30. Bukhari, S. M. F., Abbas, S. R., Akhtar, T. and **Ali, G.** *Berberis lycium*, BI-15-mat-k-AJK-2018, Maturase K (mat-k) gene, partial cds; chloroplast. Accession: MH198449.
31. Bukhari, S. M. F., Abbas, S. R., Akhtar, T. and **Ali, G.** *Berberis lycium*, BI-1-ITS-AJK-2018, Internal Transcribed Spacer (ITS) gene, partial sequence; chloroplast MH198427.
32. Bukhari, S. M. F., Abbas, S. R., Akhtar, T. and **Ali, G.** *Berberis lycium*, BI-2-ITS-AJK-2018, Internal Transcribed Spacer (ITS) gene, partial sequence; chloroplast MH198428.
33. Bukhari, S. M. F., Abbas, S. R., Akhtar, T. and **Ali, G.** *Berberis lycium*, BI-3-ITS-AJK-2018, Internal Transcribed Spacer (ITS) gene, partial sequence; chloroplast MH198429.
34. Bukhari, S. M. F., Abbas, S. R., Akhtar, T. and **Ali, G.** *Berberis lycium*, BI-4-ITS-AJK-2018, Internal Transcribed Spacer (ITS) gene, partial sequence; chloroplast MH198430.
35. Bukhari, S. M. F., Abbas, S. R., Akhtar, T. and **Ali, G.** *Berberis lycium*, BI-5-ITS-AJK-2018, Internal Transcribed Spacer (ITS) gene, partial sequence; chloroplast MH198431.
36. Bukhari, S. M. F., Abbas, S. R., Akhtar, T. and **Ali, G.** *Berberis lycium*, BI-6-ITS-AJK-2018, Internal Transcribed Spacer (ITS) gene, partial sequence; chloroplast MH198432.
37. Bukhari, S. M. F., Abbas, S. R., Akhtar, T. and **Ali, G.** *Berberis lycium*, BI-7-ITS-AJK-2018, Internal Transcribed Spacer (ITS) gene, partial sequence; chloroplast MH198433.

38. Bukhari, S. M. F., Abbas, S. R., Akhtar, T. and **Ali, G.** *Berberis lycium*, BI-8-ITS-AJK-2018, Internal Transcribed Spacer (ITS) gene, partial sequence; chloroplast MH198434.
39. Bukhari, S. M. F., Abbas, S. R., Akhtar, T. and **Ali, G.** *Berberis lycium*, BI-9-ITS-AJK-2018, Internal Transcribed Spacer (ITS) gene, partial sequence; chloroplast MH198435.
40. Bukhari, S. M. F., Abbas, S. R., Akhtar, T. and **Ali, G.** *Berberis lycium*, BI-10-ITS-AJK-2018, Internal Transcribed Spacer (ITS) gene, partial sequence; chloroplast MH198436.
41. Bukhari, S. M. F., Abbas, S. R., Akhtar, T. and **Ali, G.** *Berberis lycium*, BI-11-ITS-AJK-2018, Internal Transcribed Spacer (ITS) gene, partial sequence; chloroplast MH198437.
42. Bukhari, S. M. F., Abbas, S. R., Akhtar, T. and **Ali, G.** *Berberis lycium*, BI-12-ITS-AJK-2018, Internal Transcribed Spacer (ITS) gene, partial sequence; chloroplast MH198438.
43. Bukhari, S. M. F., Abbas, S. R., Akhtar, T. and **Ali, G.** *Berberis lycium*, BI-13-ITS-AJK-2018, Internal Transcribed Spacer (ITS) gene, partial sequence; chloroplast MH198439.
44. Bukhari, S. M. F., Abbas, S. R., Akhtar, T. and **Ali, G.** *Berberis lycium*, BI-14-ITS-AJK-2018, Internal Transcribed Spacer (ITS) gene, partial sequence; chloroplast MH198440.
45. Bukhari, S. M. F., Abbas, S. R., Akhtar, T. and **Ali, G.** *Berberis lycium*, BI-13-ITS-AJK-2018, Internal Transcribed Spacer (ITS) gene, partial sequence; chloroplast MH198441.
46. Bukhari, S. M. F., Abbas, S. R., Akhtar, T. and **Ali, G.** *Berberis lycium*, BI-1-trnH-psbA-AJK-2018, trnH-psbA intergenic spacer (trnH-psbA) gene, partial sequence; chloroplast MK283650.
47. Bukhari, S. M. F., Abbas, S. R., Akhtar, T. and **Ali, G.** *Berberis lycium*, BI-2-trnH-psbA-AJK-2018, trnH-psbA intergenic spacer (trnH-psbA) gene, partial sequence; chloroplast MK283651.
48. Bukhari, S. M. F., Abbas, S. R., Akhtar, T. and **Ali, G.** *Berberis lycium*, BI-3-trnH-psbA-AJK-2018, trnH-psbA intergenic spacer (trnH-psbA) gene, partial sequence; chloroplast MK283652.
49. Bukhari, S. M. F., Abbas, S. R., Akhtar, T. and **Ali, G.** *Berberis lycium*, BI-4-trnH-psbA-AJK-2018, trnH-psbA intergenic spacer (trnH-psbA) gene, partial sequence; chloroplast MK283653.
50. Bukhari, S. M. F., Abbas, S. R., Akhtar, T. and **Ali, G.** *Berberis lycium*, BI-5-trnH-psbA-AJK-2018, trnH-psbA intergenic spacer (trnH-psbA) gene, partial sequence; chloroplast MK283654.
51. Bukhari, S. M. F., Abbas, S. R., Akhtar, T. and **Ali, G.** *Berberis lycium*, BI-6-trnH-psbA-AJK-2018, trnH-psbA intergenic spacer (trnH-psbA) gene, partial sequence; chloroplast MK283655.
52. Bukhari, S. M. F., Abbas, S. R., Akhtar, T. and **Ali, G.** *Berberis lycium*, BI-7-trnH-psbA-AJK-2018, trnH-psbA intergenic spacer (trnH-psbA) gene, partial sequence; chloroplast MK283656.
53. Bukhari, S. M. F., Abbas, S. R., Akhtar, T. and **Ali, G.** *Berberis lycium*, BI-8-trnH-psbA-AJK-2018, trnH-psbA intergenic spacer (trnH-psbA) gene, partial sequence; chloroplast MK283657.
54. Bukhari, S. M. F., Abbas, S. R., Akhtar, T. and **Ali, G.** *Berberis lycium*, BI-9-trnH-psbA-AJK-2018, trnH-psbA intergenic spacer (trnH-psbA) gene, partial sequence; chloroplast MK283658.
55. Bukhari, S. M. F., Abbas, S. R., Akhtar, T. and **Ali, G.** *Berberis lycium*, BI-10-trnH-psbA-AJK-2018, trnH-psbA intergenic spacer (trnH-psbA) gene, partial sequence; chloroplast MK283659.

56. Bukhari, S. M. F., Abbas, S. R., Akhtar, T. and **Ali, G.** *Berberis lycium*, BI-11-trnH-psbA-AJK-2018, trnH-psbA intergenic spacer (trnH-psbA) gene, partial sequence; chloroplast MK283660.
57. Bukhari, S. M. F., Abbas, S. R., Akhtar, T. and **Ali, G.** *Berberis lycium*, BI-12-trnH-psbA-AJK-2018, trnH-psbA intergenic spacer (trnH-psbA) gene, partial sequence; chloroplast MK283661.
58. Bukhari, S. M. F., Abbas, S. R., Akhtar, T. and **Ali, G.** *Berberis lycium*, BI-13-trnH-psbA-AJK-2018, trnH-psbA intergenic spacer (trnH-psbA) gene, partial sequence; chloroplast MK283662.
59. Bukhari, S. M. F., Abbas, S. R., Akhtar, T. and **Ali, G.** *Berberis lycium*, BI-14-trnH-psbA-AJK-2018, trnH-psbA intergenic spacer (trnH-psbA) gene, partial sequence; chloroplast MK283663.
60. Bukhari, S. M. F., Abbas, S. R., Akhtar, T. and **Ali, G.** *Berberis lycium*, BI-15-trnH-psbA-AJK-2018, trnH-psbA intergenic spacer (trnH-psbA) gene, partial sequence; chloroplast MK283664.
61. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP-A-CO1-AJK-2015, *Cytochrome C Oxidase 1* gene (CO1) gene, partial sequence; mitochondrial. Accession: KU317682.
62. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP-AH-CO1-AJK-2015, *Cytochrome C Oxidase 1* gene (CO1) gene, partial sequence; mitochondrial. Accession: KU317683.
63. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP-AM-CO1-AJK-2015, *Cytochrome C Oxidase 1* gene (CO1) gene, complete sequence; mitochondrial. Accession: KU317684.
64. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP-AP-CO1-AJK-2015, *Cytochrome C Oxidase 1* gene (CO1) gene, partial sequence; mitochondrial. Accession: KU317685.
65. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP-AR-CO1-AJK-2015, *Cytochrome C Oxidase 1* gene (CO1) gene, partial sequence; mitochondrial. Accession: KU317686.
66. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP-AT-CO1-AJK-2015, *Cytochrome C Oxidase 1* gene (CO1) gene, complete sequence; mitochondrial. Accession: KU317687.
67. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP-AV-CO1-AJK-2015, *Cytochrome C Oxidase 1* gene (CO1) gene, complete sequence; mitochondrial. Accession: KU317688.
68. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP-AX-CO1-AJK-2015, *Cytochrome C Oxidase 1* gene (CO1) gene, complete sequence; mitochondrial. Accession: KU317689.
69. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP-AZ-CO1-AJK-2015, *Cytochrome C Oxidase 1* gene (CO1) gene, complete sequence; mitochondrial. Accession: KU317690.
70. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP-BD-CO1-AJK-2015, *Cytochrome C Oxidase 1* gene (CO1) gene, partial sequence; mitochondrial. Accession: KU317691.
71. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP-BF-CO1-AJK-2015, *Cytochrome C Oxidase 1* gene (CO1) gene, partial sequence; mitochondrial. Accession: KU317692.
72. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP-BG-CO1-AJK-2015, *Cytochrome C Oxidase 1* gene (CO1) gene, complete sequence; mitochondrial. Accession: KU317693.
73. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP-BH-CO1-AJK-2015, *Cytochrome C Oxidase 1* gene (CO1) gene, complete sequence; mitochondrial. Accession: KU317694.

74. Akhtar T and **Ali G.** *Schizothorax plagiosomus*, SP-C-CO1-AJK-2015, *Cytochrome C Oxidase 1* gene (CO1) gene, partial sequence; mitochondrial. Accession: KU317695.
75. Akhtar T and **Ali G.** *Schizothorax plagiosomus*, SP-G-CO1-AJK-2015, *Cytochrome C Oxidase 1* gene (CO1) gene, partial sequence; mitochondrial. Accession: KU317696.
76. Akhtar T and **Ali G.** *Schizothorax plagiosomus*, SP-K-CO1-AJK-2015, *Cytochrome C Oxidase 1* gene (CO1) gene, partial sequence; mitochondrial. Accession: KU317697.
77. Akhtar T and **Ali G.** *Schizothorax esocinus*, SE-AL-CO1-AJK-2015, *Cytochrome C Oxidase 1* gene (CO1) gene, complete sequence; mitochondrial. Accession: KU317698.
78. Akhtar T and **Ali G.** *Schizothorax esocinus*, SE-BA-CO1-AJK-2015, *Cytochrome C Oxidase 1* gene (CO1) gene, complete sequence; mitochondrial. Accession: KU317699.
79. Akhtar T and **Ali G.** *Schizothorax esocinus*, SE-BB-CO1-AJK-2015, *Cytochrome C Oxidase 1* gene (CO1) gene, complete sequence; mitochondrial. Accession: KU317700.
80. Akhtar T and **Ali G.** *Schizothorax esocinus*, SE-BE-CO1-AJK-2015, *Cytochrome C Oxidase 1* gene (CO1) gene, complete sequence; mitochondrial. Accession: KU317701.
81. Akhtar T and **Ali G.** *Schizothorax esocinus*, SE-H-CO1-AJK-2015, *Cytochrome C Oxidase 1* gene (CO1) gene, complete sequence; mitochondrial. Accession: KU317702.
82. Akhtar T and **Ali G.** *Schizothorax niger*, SN-AS-CO1-AJK-2015, *Cytochrome C Oxidase 1* gene (CO1) gene, complete sequence; mitochondrial. Accession: KU317703.
83. Akhtar T and **Ali G.** *Schizothorax niger*, SN-AW-CO1-AJK-2015, *Cytochrome C Oxidase 1* gene (CO1) gene, complete sequence; mitochondrial. Accession: KU317704.
84. Akhtar T and **Ali G.** *Schizothorax progastus*, SPR-AU-CO1-AJK-2015, *Cytochrome C Oxidase 1* gene (CO1) gene, complete sequence; mitochondrial. Accession: KU317705.
85. Akhtar T and **Ali G.** *Schizothorax progastus*, SPR-AY-CO1-AJK-2015, *Cytochrome C Oxidase 1* gene (CO1) gene, complete sequence; mitochondrial. Accession: KU317706.
86. Akhtar T and **Ali G.** *Schizothorax progastus*, SPR-BC-CO1-AJK-2015, *Cytochrome C Oxidase 1* gene (CO1) gene, complete sequence; mitochondrial. Accession: KU317707.
87. Akhtar T and **Ali G.** *Schizothorax plagiosomus*, SP06/Cytb/AJK/2014, *cytochrome b* (cytb) gene, complete cds; mitochondrial. Accession: KR232369
88. Akhtar T and **Ali G.** *Schizothorax plagiosomus*, SP11/Cytb/AJK/2014, *cytochrome b* (cytb) gene, complete cds; mitochondrial. Accession: KR232372
89. Akhtar T and **Ali G.** *Schizothorax plagiosomus*, SP01/Cytb/AJK/2016, *cytochrome b* (cytb) gene, complete cds; mitochondrial. Accession: KX254889
90. Akhtar T and **Ali G.** *Schizothorax plagiosomus*, SP02/Cytb/AJK/2016, *cytochrome b* (cytb) gene, complete cds; mitochondrial. Accession: KX254890
91. Akhtar T and **Ali G.** *Schizothorax plagiosomus*, SP03/Cytb/AJK/2016, *cytochrome b* (cytb) gene, complete cds; mitochondrial. Accession: KX254891

92. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP04/Cytb/AJK/2016, *cytochrome b* (cytb) gene, complete cds; mitochondrial. Accession: KX254892
93. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP07/Cytb/AJK/2016, *cytochrome b* (cytb) gene, complete cds; mitochondrial. Accession: KX254893
94. Akhtar T and **Ali G.** *Schizothorax esocinus*, SE08/Cytb/AJK/2016, *cytochrome b* (cytb) gene, complete cds; mitochondrial. Accession: KX254881
95. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP09/Cytb/AJK/2016, *cytochrome b* (cytb) gene, complete cds; mitochondrial. Accession: KX254894
96. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP10/Cytb/AJK/2016, *cytochrome b* (cytb) gene, complete cds; mitochondrial. Accession: KX254895
97. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP12/Cytb/AJK/2016, *cytochrome b* (cytb) gene, complete cds; mitochondrial. Accession: KX254896
98. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP15/Cytb/AJK/2016, *cytochrome b* (cytb) gene, complete cds; mitochondrial. Accession: KX254897
99. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP17/Cytb/AJK/2016, *cytochrome b* (cytb) gene, complete cds; mitochondrial. Accession: KX254898
100. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP18/Cytb/AJK/2016, *cytochrome b* (cytb) gene, complete cds; mitochondrial. Accession: KX254899
101. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP19/Cytb/AJK/2016, *cytochrome b* (cytb) gene, complete cds; mitochondrial. Accession: KX254900
102. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP30/Cytb/AJK/2016, *cytochrome b* (cytb) gene, complete cds; mitochondrial. Accession: KX254901
103. Akhtar T and **Ali G.** *Schizothorax niger*, SN33/Cytb/AJK/2016, *cytochrome b* (cytb) gene, complete cds; mitochondrial. Accession: KX254886
104. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP34/Cytb/AJK/2016, *cytochrome b* (cytb) gene, complete cds; mitochondrial. Accession: KX254902
105. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP35/Cytb/AJK/2016, *cytochrome b* (cytb) gene, complete cds; mitochondrial. Accession: KX254903
106. Akhtar T and **Ali G.** *Schizothorax esocinus*, SE38/Cytb/AJK/2016, *cytochrome b* (cytb) gene, complete cds; mitochondrial. Accession: KX254882
107. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP39/Cytb/AJK/2016, *cytochrome b* (cytb) gene, complete cds; mitochondrial. Accession: KX254904
108. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP40/Cytb/AJK/2016, *cytochrome b* (cytb) gene, complete cds; mitochondrial. Accession: KX254905
109. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP42/Cytb/AJK/2016, *cytochrome b* (cytb) gene, complete cds; mitochondrial. Accession: KX254906

110. Akhtar T and **Ali G.** *Schizothorax niger*, SN45/Cytb/AJK/2016, *cytochrome b* (cytb) gene, complete cds; mitochondrial. Accession: KX254887
111. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP46/Cytb/AJK/2016, *cytochrome b* (cytb) gene, complete cds; mitochondrial. Accession: KX254907
112. Akhtar T and **Ali G.** *Schizothorax progastus*, SPR47/Cytb/AJK/2016, *cytochrome b* (cytb) gene, complete cds; mitochondrial. Accession: KX254913
113. Akhtar T and **Ali G.** *Schizothorax niger*, SN49/Cytb/AJK/2016, *cytochrome b* (cytb) gene, complete cds; mitochondrial. Accession: KX254888
114. Akhtar T and **Ali G.** *Schizothorax progastus*, SPR51/Cytb/AJK/2016, *cytochrome b* (cytb) gene, complete cds; mitochondrial. Accession: KX254914
115. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP52/Cytb/AJK/2016, *cytochrome b* (cytb) gene, complete cds; mitochondrial. Accession: KX254908
116. Akhtar T and **Ali G.** *Schizothorax esocinus*, SE53/Cytb/AJK/2016, *cytochrome b* (cytb) gene, complete cds; mitochondrial. Accession: KX254883
117. Akhtar T and **Ali G.** *Schizothorax esocinus*, SE54/Cytb/AJK/2016, *cytochrome b* (cytb) gene, complete cds; mitochondrial. Accession: KX254884
118. Akhtar T and **Ali G.** *Schizothorax progastus*, SPR55/Cytb/AJK/2016, *cytochrome b* (cytb) gene, complete cds; mitochondrial. Accession: KX254915
119. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP56/Cytb/AJK/2016, *cytochrome b* (cytb) gene, complete cds; mitochondrial. Accession: KX254909
120. Akhtar T and **Ali G.** *Schizothorax esocinus*, SE57/Cytb/AJK/2016, *cytochrome b* (cytb) gene, complete cds; mitochondrial. Accession: KX254885
121. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP58/Cytb/AJK/2016, *cytochrome b* (cytb) gene, complete cds; mitochondrial. Accession: KX254910
122. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP59/Cytb/AJK/2016, *cytochrome b* (cytb) gene, complete cds; mitochondrial. Accession: KX254911
123. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP60/Cytb/AJK/2016, *cytochrome b* (cytb) gene, complete cds; mitochondrial. Accession: KX254912
124. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP01/16S rRNA/AJK/2016, 16S ribosomal RNA (16S) gene, complete cds; mitochondrial. Accession: KX160502
125. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP02/16S rRNA/AJK/2016, 16S ribosomal RNA (16S) gene, complete cds; mitochondrial. Accession: KX160503
126. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP03/16S rRNA/AJK/2016, 16S ribosomal RNA (16S) gene, complete cds; mitochondrial. Accession: KX160504
127. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP04/16S rRNA/AJK/2016, 16S ribosomal RNA (16S) gene, complete cds; mitochondrial. Accession: KX160505

128. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP05/16S rRNA/AJK/2016, 16S ribosomal RNA (16S) gene, complete cds; mitochondrial. Accession: KX160506
129. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP06/16S rRNA/AJK/2016, 16S ribosomal RNA (16S) gene, complete cds; mitochondrial. Accession: KX160507
130. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP07/16S rRNA/AJK/2016, 16S ribosomal RNA (16S) gene, complete cds; mitochondrial. Accession: KX160508
131. Akhtar T and **Ali G.** *Schizothorax esocinus*, SE08/16S rRNA/AJK/2016, 16S ribosomal RNA (16S) gene, complete cds; mitochondrial. Accession: KX160494
132. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP09/16S rRNA/AJK/2016, 16S ribosomal RNA (16S) gene, complete cds; mitochondrial. Accession: KX160509
133. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP10/16S rRNA/AJK/2016, 16S ribosomal RNA (16S) gene, complete cds; mitochondrial. Accession: KX160510
134. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP11/16S rRNA/AJK/2016, 16S ribosomal RNA (16S) gene, complete cds; mitochondrial. Accession: KX160511
135. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP12/16S rRNA/AJK/2016, 16S ribosomal RNA (16S) gene, complete cds; mitochondrial. Accession: KX160512
136. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP13/16S rRNA/AJK/2016, 16S ribosomal RNA (16S) gene, complete cds; mitochondrial. Accession: KX160513
137. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP15/16S rRNA/AJK/2016, 16S ribosomal RNA (16S) gene, complete cds; mitochondrial. Accession: KX160514
138. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP17/16S rRNA/AJK/2016, 16S ribosomal RNA (16S) gene, complete cds; mitochondrial. Accession: KX160515
139. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP18/16S rRNA/AJK/2016, 16S ribosomal RNA (16S) gene, complete cds; mitochondrial. Accession: KX160516
140. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP19/16S rRNA/AJK/2016, 16S ribosomal RNA (16S) gene, complete cds; mitochondrial. Accession: KX160517
141. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP20/16S rRNA/AJK/2016, 16S ribosomal RNA (16S) gene, complete cds; mitochondrial. Accession: KX160518
142. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP21/16S rRNA/AJK/2016, 16S ribosomal RNA (16S) gene, complete cds; mitochondrial. Accession: KX160519
143. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP22/16S rRNA/AJK/2016, 16S ribosomal RNA (16S) gene, complete cds; mitochondrial. Accession: KX160520
144. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP23/16S rRNA/AJK/2016, 16S ribosomal RNA (16S) gene, complete cds; mitochondrial. Accession: KX160521
145. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP24/16S rRNA/AJK/2016, 16S ribosomal RNA (16S) gene, complete cds; mitochondrial. Accession: KX160522

146. Akhtar T and **Ali G.** *Schizothorax niger*, SN33/16S rRNA/AJK/2016, 16S ribosomal RNA (16S) gene, complete cds; mitochondrial. Accession: KX160499
147. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP35/16S rRNA/AJK/2016, 16S ribosomal RNA (16S) gene, complete cds; mitochondrial. Accession: KX160523
148. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP37/16S rRNA/AJK/2016, 16S ribosomal RNA (16S) gene, complete cds; mitochondrial. Accession: KX160524
149. Akhtar T and **Ali G.** *Schizothorax esocinus*, SE38/16S rRNA/AJK/2016, 16S ribosomal RNA (16S) gene, complete cds; mitochondrial. Accession: KX160495
150. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP39/16S rRNA/AJK/2016, 16S ribosomal RNA (16S) gene, complete cds; mitochondrial. Accession: KX160525
151. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP40/16S rRNA/AJK/2016, 16S ribosomal RNA (16S) gene, complete cds; mitochondrial. Accession: KX160526
152. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP44/16S rRNA/AJK/2016, 16S ribosomal RNA (16S) gene, complete cds; mitochondrial. Accession: KX160527
153. Akhtar T and **Ali G.** *Schizothorax niger*, SN45/16S rRNA/AJK/2016, 16S ribosomal RNA (16S) gene, complete cds; mitochondrial. Accession: KX160500
154. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP46/16S rRNA/AJK/2016, 16S ribosomal RNA (16S) gene, complete cds; mitochondrial. Accession: KX160528
155. Akhtar T and **Ali G.** *Schizothorax progastus*, SPR47/16S rRNA/AJK/2016, 16S ribosomal RNA (16S) gene, complete cds; mitochondrial. Accession: KX160536
156. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP48/16S rRNA/AJK/2016, 16S ribosomal RNA (16S) gene, complete cds; mitochondrial. Accession: KX160529
157. Akhtar T and **Ali G.** *Schizothorax niger*, SN49/16S rRNA/AJK/2016, 16S ribosomal RNA (16S) gene, complete cds; mitochondrial. Accession: KX160501
158. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP50/16S rRNA/AJK/2016, 16S ribosomal RNA (16S) gene, complete cds; mitochondrial. Accession: KX160530
159. Akhtar T and **Ali G.** *Schizothorax progastus*, SPR51/16S rRNA/AJK/2016, 16S ribosomal RNA (16S) gene, complete cds; mitochondrial. Accession: KX160537
160. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP52/16S rRNA/AJK/2016, 16S ribosomal RNA (16S) gene, complete cds; mitochondrial. Accession: KX160531
161. Akhtar T and **Ali G.** *Schizothorax esocinus*, SE53/16S rRNA/AJK/2016, 16S ribosomal RNA (16S) gene, complete cds; mitochondrial. Accession: KX160496
162. Akhtar T and **Ali G.** *Schizothorax esocinus*, SE54/16S rRNA/AJK/2016, 16S ribosomal RNA (16S) gene, complete cds; mitochondrial. Accession: KX160497
163. Akhtar T and **Ali G.** *Schizothorax progastus*, SPR55/16S rRNA/AJK/2016, 16S ribosomal RNA (16S) gene, complete cds; mitochondrial. Accession: KX160538

164. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP56/16S rRNA/AJK/2016, 16S ribosomal RNA (16S) gene, complete cds; mitochondrial. Accession: KX160532
165. Akhtar T and **Ali G.** *Schizothorax esocinus*, SE57/16S rRNA/AJK/2016, 16S ribosomal RNA (16S) gene, complete cds; mitochondrial. Accession: KX160498
166. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP58/16S rRNA/AJK/2016, 16S ribosomal RNA (16S) gene, complete cds; mitochondrial. Accession: KX160533
167. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP59/16S rRNA/AJK/2016, 16S ribosomal RNA (16S) gene, complete cds; mitochondrial. Accession: KX160534
168. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP60/16S rRNA/AJK/2016, 16S ribosomal RNA (16S) gene, complete cds; mitochondrial. Accession: KX160535
169. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP02/D-loop/AJK/2016, D-Loop (D-Loop) gene, partial cds; mitochondrial. Accession: KX364221
170. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP03/D-loop/AJK/2016, D-Loop (D-Loop) gene, partial cds; mitochondrial. Accession: KX364222
171. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP30/D-loop/AJK/2016, D-Loop (D-Loop) gene, partial cds; mitochondrial. Accession: KX364223
172. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP31/D-loop/AJK/2016, D-Loop (D-Loop) gene, partial cds; mitochondrial. Accession: KX364224
173. Akhtar T and **Ali G.** *Schizothorax niger*, SN33/D-loop/AJK/2016, D-Loop (D-Loop) gene, partial cds; mitochondrial. Accession: KX364218
174. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP34/D-loop/AJK/2016, D-Loop (D-Loop) gene, partial cds; mitochondrial. Accession: KX364225
175. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP35/D-loop/AJK/2016, D-Loop (D-Loop) gene, partial cds; mitochondrial. Accession: KX364226
176. Akhtar T and **Ali G.** *Schizothorax esocinus*, SE38/D-loop/AJK/2016, D-Loop (D-Loop) gene, partial cds; mitochondrial. Accession: KX364214
177. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP39/D-loop/AJK/2016, D-Loop (D-Loop) gene, partial cds; mitochondrial. Accession: KX364227
178. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP40/D-loop/AJK/2016, D-Loop (D-Loop) gene, partial cds; mitochondrial. Accession: KX364228
179. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP42/D-loop/AJK/2016, D-Loop (D-Loop) gene, partial cds; mitochondrial. Accession: KX364229
180. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP44/D-loop/AJK/2016, D-Loop (D-Loop) gene, partial cds; mitochondrial. Accession: KX364230
181. Akhtar T and **Ali G.** *Schizothorax niger*, SN45/D-loop/AJK/2016, D-Loop (D-Loop) gene, partial cds; mitochondrial. Accession: KX364219

182. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP46/D-loop/AJK/2016, D-Loop (D-Loop) gene, partial cds; mitochondrial. Accession: KX364231
183. Akhtar T and **Ali G.** *Schizothorax progastus*, SPR47/D-loop/AJK/2016, D-Loop (D-Loop) gene, partial cds; mitochondrial. Accession: KX364237
184. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP48/D-loop/AJK/2016, D-Loop (D-Loop) gene, partial cds; mitochondrial. Accession: KX364232
185. Akhtar T and **Ali G.** *Schizothorax niger*, SN49/D-loop/AJK/2016, D-Loop (D-Loop) gene, partial cds; mitochondrial. Accession: KX364220
186. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP50/D-loop/AJK/2016, D-Loop (D-Loop) gene, partial cds; mitochondrial. Accession: KX364233
187. Akhtar T and **Ali G.** *Schizothorax progastus*, SPR51/D-loop/AJK/2016, D-Loop (D-Loop) gene, partial cds; mitochondrial. Accession: KX364238
188. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP52/D-loop/AJK/2016, D-Loop (D-Loop) gene, partial cds; mitochondrial. Accession: KX364234
189. Akhtar T and **Ali G.** *Schizothorax esocinus*, SE53/D-loop/AJK/2016, D-Loop (D-Loop) gene, partial cds; mitochondrial. Accession: KX364215
190. Akhtar T and **Ali G.** *Schizothorax esocinus*, SE54/D-loop/AJK/2016, D-Loop (D-Loop) gene, partial cds; mitochondrial. Accession: KX364216
191. Akhtar T and **Ali G.** *Schizothorax progastus*, SPR55/D-loop/AJK/2016, D-Loop (D-Loop) gene, partial cds; mitochondrial. Accession: KX364239
192. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP56/D-loop/AJK/2016, D-Loop (D-Loop) gene, partial cds; mitochondrial. Accession: KX364235
193. Akhtar T and **Ali G.** *Schizothorax esocinus*, SE57/D-loop/AJK/2016, D-Loop (D-Loop) gene, partial cds; mitochondrial. Accession: KX364217
194. Akhtar T and **Ali G.** *Schizothorax plagiostomus*, SP60/D-loop/AJK/2016, D-Loop (D-Loop) gene, partial cds; mitochondrial. Accession: KX364236
195. Almajhdi FN, Amer HM and **Ali G.** Influenza B virus (B/Riyadh/1/2010) segment 4 hemagglutinin (HA) gene, partial cds. Accession: JN663826.1 GI: 347665305
196. Almajhdi FN, Amer HM and **Ali G.** Influenza B virus (B/Riyadh/1/2010) segment 6 neuraminidase (NA) gene, complete cds. Accession: JN663827.1 GI: 347665307
197. Almajhdi FN, Amer HM and **Ali G.** Influenza B virus (B/Riyadh/02/2010) segment 4 hemagglutinin (HA) gene, complete cds. Accession: JQ771075.1 GI: 381144419
198. Almajhdi FN, Amer HM and **Ali G.** Influenza B virus (B/Riyadh/02/2010) segment 6 neuraminidase (NA) gene, complete cds. Accession: JQ771076.1 GI: 381144421
199. Almajhdi FN, Amer HM and **Ali G.** Influenza B virus (B/Riyadh/03/2010) segment 4 hemagglutinin (HA) gene, complete cds. Accession: JQ771077.1 GI: 381144423

200. Almajhdi FN, Amer HM and **Ali G**. Influenza B virus (B/Riyadh/03/2010) segment 6 neuraminidase (NA) gene, complete cds. Accession: JQ771078.1 GI: 381144425
201. Almajhdi FN, Amer HM and **Ali G**. Influenza B virus (B/Riyadh/04/2010) segment 4 hemagglutinin (HA) gene, complete cds. Accession: JQ771079.1 GI: 381144427
202. **Ali G** and Almajhdi FN. Influenza B virus (B/Riyadh/04/2010) segment 6 neuraminidase (NA) gene, complete cds; and NB protein (NB) gene, partial cds. Accession: KC709817
203. **Ali G** and Almajhdi FN. Influenza B virus (B/Riyadh/01/2010) segment 3 polymerase PA (PA) gene, partial cds. Accession: KC709814
204. **Ali G** and Almajhdi FN. Influenza B virus (B/Riyadh/01/2010) segment 1 polymerase PB1 (PB1) gene, complete cds. Accession: KC709815
205. **Ali G** and Almajhdi FN. Influenza B virus (B/Riyadh/01/2010) segment 2 polymerase PB2 (PB2) gene, complete cds. Accession: KC709816
206. **Ali G** and Almajhdi FN. Influenza A virus (A/Riyadh/01/2010(H3N2)) segment 4 hemagglutinin (HA) gene, complete cds. Accession: KC709818
207. **Ali G** and Almajhdi FN. Influenza A virus (A/Riyadh/01/2010(H3N2)) segment 6 neuraminidase (NA) gene, complete cds. Accession: KC709819
208. **Ali G**, Amer HM and Almajhdi FN. Human respiratory syncytial virus, strain hRSVA/Riyadh/28/2010, fusion glycoprotein (F) gene, partial cds. Accession: KC763334
209. **Ali G**, Amer HM and Almajhdi FN. Human respiratory syncytial virus, strain hRSVA/Riyadh/28/2010, attachment glycoprotein (G) gene, complete cds. Accession: KC763335
210. **Ali G**, Amer HM and Almajhdi FN. Human respiratory syncytial virus, strain hRSVA/Riyadh/59/2010, fusion glycoprotein (F) gene, partial cds. Accession: KC763336
211. **Ali G**, Amer HM and Almajhdi FN. Human respiratory syncytial virus, strain hRSVA/Riyadh/59/2010, attachment glycoprotein (G) gene, complete cds. Accession: KC763337
212. **Ali G**, Amer HM and Almajhdi FN. Human respiratory syncytial virus, strain hRSVA/Riyadh/67/2010, fusion glycoprotein (F) gene, partial cds. Accession: KC763338
213. **Ali G**, Amer HM and Almajhdi FN. Human respiratory syncytial virus, strain hRSVA/Riyadh/67/2010, attachment glycoprotein (G) gene, complete cds. Accession: KC763339.

PATENT SUBMITTED (UNDER EVALUATION PROCESS)

- Syed Rizwan Abbas, **Ghazanfar Ali**, Zeeshan Anjum and Rehmat Zaman. Abbas berberine isolation method from berberis. **Patent Submission No. 824/2015.**

REFEREES

Prof. Dr. Wasim Ahmad

Dean of Sciences,
Department of Biochemistry, Faculty of Biological Sciences,
Quaid-i-Azam University, Islamabad, Pakistan.
Email: wahmad@qau.edu.pk
Contact: +92-51-90643003 & +92-300-5357427

Dr. Zahid Azeem

Associate Professor,
Department of Biochemistry,
Azad Jammu & Kashmir Medical College, Muzaffarabad, Pakistan.
Email: paym_zahid@yahoo.com
Contact: +92-333-5121143

Dr. Muhammad Zada

Assistant Professor,
Department of Bioinformatics, University of Hazara University,
Mansehra, Khyber Pakhtunkhwa, Pakistan.
Email: mzada2001@gmail.com
Cell: 0092-346-9471292

Dr. Syed Rizwan Abbas

Assistant Professor;
Department of Biological Sciences,
Karakoram International University, Gilgit, Pakistan.
Email: drsyedrizwanabbas@gmail.com
Mobil: +923444244544

Dr. Sulman Basit

Assistant Professor
Center for Genetics and Inherited Diseases, College of Medicine,
Taibah University,
Madinah Al Munawara 30001, Saudi Arabia.
Email: biochemistsulfi@yahoo.com & sbasit.phd@gmail.com
Cell: +966535370209